What is claim d is:

1. A radio access network system having a synchronous server and at least one node, wherein

the synchronous server comprises:

a clock generator configured to periodically generate a clock; and

a synchronous message transmitter configured to generate a synchronous message for notifying information regarding the generated clock, and to transmit the generated synchronous message to the node using an IP packet; and

the node comprises:

a time calculator configured to obtain a time of receiving the synchronous message; and

a clock correction processor configured to calculate a clock correction value in accordance with the time of receiving the synchronous message and the information regarding the clock notified by the synchronous message, and to correct a generated timing of a clock in the node in accordance with the clock correction value.

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2. A radio communication method in a radio access network system having a synchronous server and at least one node, the method comprising the steps of:

generating a clock periodically in the synchronous server;

generating a synchronous message for notifying information regarding the generated clock in the synchronous server;

transmitting the generated synchronous message to the

node using an IP packet in the synchronous server;

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calculating a clock correction value in accordance with a time of receiving the synchronous message and the information regarding the clock notified by the synchronous message in the node; and

correcting a generated timing of a clock in accordance with the clock correction value in the node.

3. A synchronous server in a radio access network system having at least one node, the server comprising:

a clock generator configured to periodically generate a clock; and

a synchronous message transmitter configured to generate a synchronous message for notifying information regarding the generated clock, and to transmit the generated synchronous message to the node using an IP packet.

- 4. The synchronous server according to claim 3, wherein the synchronous message transmitter sets a time of transmitting the synchronous message as the information regarding the clock in the synchronous message.
- 5. A node in a radio access network system having a synchronous server, the node comprising:
- a receiver configured to receive a synchronous message for notifying information regarding a clock generated in the synchronous server;

a time calculator configured to obtain a time of receiving the synchronous message; and

a clock correction processor configured to calculate a clock correction value in accordance with the time of receiving the synchronous message and the information regarding the clock notified by the synchronous message, and to correct a generated timing of a clock in the node in accordance with the clock correction value.

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- 6. The node according to claim 5, wherein the time calculator measures a reception interval of the synchronous message, and calculates the clock correction value without using the synchronous message when the reception interval of the synchronous message is more than a predetermined threshold.
- 7. The node according to claim 5, the node further comprising
 15 a memory configured to associate a time of transmitting set in
 the synchronous message with the time of receiving the
 synchronous message in the node, upon receiving the synchronous
 message.
- 20 8. The node according to claim 7, wherein the time calculator obtains the time of transmitting the synchronous message and the time of receiving the synchronous message from the memory, calculates a transmission interval of the synchronous message and a reception interval of the synchronous message, and calculates the clock correction value in accordance with a comparison between the transmission interval and the reception interval.